CIVIL AIM CONSULTANTS & ENGINEERS

(Building Geo-Tech & Highway Materials Testing Laboratory)

An ISO 9001-2015 Certified Company

NABL Accredited As Per ISO/IEC 17025:2017 Laboratory

NABL TC-9500

Job No.: CQCE/BBMP/AEE/YNK/Borewell/QC-WMM(ATL)/W01&03/202 Date : 25.05.2024

ATTERBERG LIMITS TEST FOR WMM

Client : **Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.**

Agency : **Sri. Shadyan (Sadian) (Ganesh Engineering Works)**

Name of Work : Drilling of Borewells and Providing Pump, Motor and Electrification Works to 110 Village Areas in Ward No-01 and Ward No-03 of Yelahanka Division.

IS Code: : IS 2720(Part 5):1985

Date of Testing : 20.05.2024 to 25.05.2024

Material Type : Wet Mix Macadam

A.E.E.

Sl. No.	Particulars	Test Results	Requirement as per MORTH 5th edition Cl.406.2.1.2
1	Liquid Limit	20.00	-
2	Plasticity Index, %	Non Plastic	6.0% Maximum.

Note:

1. The report shall not be reproduced, except in full, without the written approval of the laboratory.
2. The results indicated above are based on the tests carried out on the samples collected at the site.
3. Any Query regarding the report must be reported within 30 days from the date of testing.

No.01, Satvika Nilaya, Opp. Widia Poorna Prajna School,
Ramaiah Layout, Nagasandra, Banglore - 560 073.
Ph.No: 9591618639 GST IN:29CNWPD9510K1ZB Email:civilaimconsultants@gmail.com

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Job No.: CQCE/BBMP/AEE/YNK/Borewell/QC-WMM(ATL)/W01&03/202 Date : 25.05.2024

ATTERBERG LIMITS TEST FOR WMM

Client : Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.

Agency : Sri. Shadyan (Sadian) (Ganesh Engineering Works)

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Ph.No: 9591618639 GST IN:29CNWPD9510K1ZB Email:civilaim

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Job No.: CQCE/BBMP/AEE/YNK/Borewell/QC-BC(Binder)/W01&03/2023-24 Date: 03.06.2024

TEST REPORT

Client	:	**Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.**
Agency	:	**Sri. Shadyan (Sadian) (Ganesh Engineering Works)**
Name of the work	:	Drilling of Borewells and Providing Pump, Motor and Electrification Works to 110 Village Areas in Ward No-01 and Ward No-03 of Yelahanka Division.
IS Code	:	IS 73:2013, IS 1203:1978(RA 2008), IS 1205:1978(RA 2009), IS 1208:1978(RA 2009), IS 1209:1978(RA 2009)
Source of location	:	Hot mix Plant, Bangalore, VG 30
Date of testing	:	03.06.2024

The results of the tests conducted on the bitumen sample using for Bituminous Concrete

Sl. No	Description	Test Result	Requirement as per IS:73:2013
1	Penetration at 25 ^{0}C, 1/10 mm	49	Min 45
2	Softening point, ^{0}C	50	Min. 47
3	Ductility at 27^{0}C, cm	> 100	Min. 40
4	Flash Point, ^{0}C	245	Min. 220

Note:

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A.E.E.

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Job No.: CQCE/BBMP/AEE/YNK/Borewell/QC-BC(WA)/W01&03/2023-24 Date : 03.06.2024

Specific Gravity And Water Absorption Test

Client	**: Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.**
Agency	**: Sri. Shadyan (Sadian) (Ganesh Engineering Works)**
Name of the Work	: Drilling of Borewells and Providing Pump, Motor and Electrification Works to 110 Village Areas in Ward No-01 and Ward No-03 of Yelahanka Division.
BIS Code	IS 2386(Part 3):1963
Type of Mix	Bituminous Concrete
Date of Testing	03.06.2024

Sl. No.	Details	Notation	Test Number			Mean Value
			Test 1	Test 2	Test 3	
1	Weight of aggregate suspended in water with the basket	W_1 g	2021	2018	2015	
2	Weight of basket suspended in water	W_2 g	755	755	755	
3	Weight of saturated aggregate in water	$(W_1 - W_2) = W_s$ g	1266	1263	1260	
4	Weight of saturated surface dry aggregate in air	W_3 g	2019	2015	2011	
5	Weight of water equal to the volume of the aggregate	$(W_3 - W_S)$ g	753	752	751	
6	Weight of oven dried aggregate	W_4 g	2014	2011	2008	
7	Specific Gravity	$W_4/(W_3-W_S)$	2.675	2.674	2.674	2.674
8	Apparent Specific gravity	$W_4/(W_4-W_S)$	2.693	2.689	2.684	2.689
9	Water Absorption	$((W_3-W_4)*100)/W_4$	0.25%	0.20%	0.15%	0.20%

A.E.E

Comments:

→ Maximum allowable Aggregate Water absorption value for Bituminous Concrete is 2.0%(MORTH table 500.16)

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